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Mining anomalies using traffic feature distributions

Anukool Lakhina, Mark Crovella, Christophe Diot

August SI GCOMM '05: Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: 12df (323.63 Additional Information: full citation, abstract, references, cited

KB) by, index terms

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 318, Citation Count: 31

The increasing practicality of large-scale flow capture makes it possible to conceive of traffic analysis methods that detect and identify a large and diverse set of anomalies. However the challenge of effectively analyzing this massive data source for ...

Keywords: anomaly classification, anomaly detection, network-wide traffic analysis

Also published in:

October 2005 SIGCOMM Computer Communication Review Volume 35 Issue 4

2 Davis social links: integrating social networks with internet routing

Lerone Banks, Shaozhi Ye, Yue Huang, S. Felix Wu

August LSAD '07: Proceedings of the 2007 workshop on Large scale attack

2007 defense **Publisher:** ACM

Full text available: Pdf (267.40 Additional Information: full citation, abstract, references, index

<u>tem</u>

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 126, Citation Count: 0

Internet based communication systems appear in many forms from email to Instant Messenger and chat services to Voice over IP (VoIP). Common weaknesses of these current communication systems include inherent security vulnerabilities to attacks such as ...

Keywords: P2P, SPAM, routing, social network

3 Energy-efficient link-layer jamming attacks against wireless sensor network

M M

MAC protocols

Yee Wei Law, Lodewijk van Hoesel, Jeroen Doumen, Pieter Hartel, Paul Havinga

November SASN '05: Proceedings of the 3rd ACM workshop on Security of ad

2005 hoc and sensor networks

Publisher: ACM

Full text available: Pdf (607.75

Additional Information: full citation, abstract, references, index

<u>terms</u>

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 305, Citation Count: 5

A typical wireless sensor node has little protection against radio jamming. The situation becomes worse if energy-efficient jamming can be achieved by exploiting knowledge of the data link layer. Encrypting the packets may help prevent the jammer from ...

Keywords: MAC protocols, clustering, denial-of-service attacks, jamming, security

4 Energy-efficient link-layer jamming attacks against wireless sensor network



MAC protocols

<u>Yes Wei Law, Marimuthu Palaniswami, Lodewijk Van Hoesel, Jeroen Doumen, Pieter</u> Hartel, Paul Havinga

February Tra

Transactions on Sensor Networks (TOSN), Volume 5 Issue 1

2009

Publisher: ACM

Full text available: 101 (884.88

KB)

Additional Information: full citation, appendices and

supplements, abstract, references, index

<u>terms</u>

Bibliometrics: Downloads (6 Weeks): 151, Downloads (12 Months): 220, Citation Count: 0

A typical wireless sensor node has little protection against radio jamming. The situation becomes worse if energy-efficient jamming can be achieved by exploiting knowledge of the data link layer. Encrypting the packets may help to prevent the jammer ...

Keywords: MAC protocols, clustering, denial-of-service attacks, expectation maximization, jamming

Distributed power control for energy efficient routing in ad hoc networks

Pierpaolo Bergamo, Alessandra Giovanardi, Andrea Travasoni, Daniela Maniezzo,
Gianluca Mazzini, Michele Zorzi

January Wireless Networks, Volume 10 Issue 1

2004

Publisher: Kluwer Academic Publishers

Full text available: Pdf (246.64 Additional Information: full citation, abstract, references, cited

KB) <u>by, index terms, review</u>

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 154, Citation Count: 3

In this paper, distributed power control is proposed as a means to improve the energy efficiency of routing algorithms in ad hoc networks. Each node in the network estimates the power necessary to reach its own neighbors, and this power estimate is used ...

Keywords: ad hoc networks, energy efficiency, power control

6 Passive online roque access point detection using sequential hypothesis

testing with TCP ACK-pairs

Wei Wei, Kyoungwon Suh, Bing Wang, Yu Gu, Jim Kurose, Don Towsley

October IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet

2007 measurement

Publisher: ACM

Full text available: Additional Information: full citation, abstract, references, index

3) <u>terms</u>

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 118, Citation Count: 4

Rogue (unauthorized) wireless access points pose serious security threats to local networks. In this paper, we propose two online algorithms to detect rogue access points using sequential hypothesis tests applied to packet-header data collected passively ...

Keywords: TCP ACK-pairs, rogue access point detection, sequential hypothesis testing

7 Secure Time Synchronization in Sensor Networks

<u> Saurabh Ganeriwal, Christina Pöpper, Srdian •apkun, Mani B. Srivastava</u>

July Transactions on Information and System Security (TISSEC), Volume

2008 11 Issue 4 **Publisher:** ACM

Full text available: Pdf (490.90 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 331, Citation Count: 0

Time synchronization is critical in sensor networks at many layers of their design. It enables better duty-cycling of the radio, accurate and secure localization, beamforming, and other collaborative signal processing tasks. These benefits make time-synchronization ...

Keywords: Sensor networks, delay, message authentication code, time synchronization

8 An adaptive communication architecture for wireless sensor networks

<u>Adam Dunkels, Fredrik Österlind, Zhitao He</u>

KB)

November SenSys '07: Proceedings of the 5th international conference on

2007 Embedded networked sensor systems

Publisher: ACM

Full text available: Pdi (230.70 Additional Information: full citation, abstract, references, index

<u>terms</u>

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 344, Citation Count: 3

As sensor networks move towards increasing heterogeneity, the number of link layers, MAC protocols, and underlying transportation mechanisms increases. System developers must adapt their applications and systems to accommodate a wide range of underlying ...

Keywords: protocol stack, wireless sensor networks

A Survey of Energy Efficient Network Protocols for Wireless Networks
Christine E. Jones, Krishna M. Sivalingam, Prathima Agrawal, Jyh Cheng Chen

September Wireless Networks, Volume 7 Issue 4

2001

Publisher: Kluwer Academic Publishers

Full text available: Pdf (271.55 Additional Information: full citation, abstract, references, cited

KB) <u>by, index terms</u>

Bibliometrics: Downloads (6 Weeks): 80, Downloads (12 Months): 527, Citation Count: 61

Wireless networking has witnessed an explosion of interest from consumers in recent years for its applications in mobile and personal communications. As wireless networks become an integral component of the modern communication infrastructure, energy ...

Keywords: energy efficient design, low-power design, mobile computing, network protocols,, power aware protocols, wireless networks

10 Performance optimizations for wireless wide-area networks: comparative

study and experimental evaluation

<u> Rajiv Chakravorty, Suman Banerjee, Pablo Rodriguez, Julian Chesterfield, Ian Pratt</u>

MobiCom '04: Proceedings of the 10th annual international September

2004 conference on Mobile computing and networking

Publisher: ACM

Full text available: Pdf (262.46 Additional Information: full citation, abstract, references, cited

by, index terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 162, Citation Count: 6

We present a comparative performance study of a wide selection of optimization techniques to enhance application performance in the context of wide-area wireless networks (WWANs). Unlike in traditional wired and wireless IP-based networks, applications ...

Keywords: 3G, CDMA 2000, GPRS, HTTP, TCP, UMTS, cellular, cross-layer interactions, multi-layer performance optimizations, proxy

11 Applying packet techniques to cellular radio

N. F. Maxemchuk

December 1999 Wireless Networks, Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

KB)

Full text available: (310.07 Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 19, Citation Count: 0

12 Funneling-MAC: a localized, sink-oriented MAC for boosting fidelity in sensor

networks

Gahng-Seop Ahn, Se Gi Hong, Emiliano Miluzzo, Andrew T. Campbell, Francesca Cuomo

October SenSys '06: Proceedings of the 4th international conference on

2006 Embedded networked sensor systems

Publisher: ACM

Full text available: [Pdf (481.94 Additional Information: full citation, abstract, references, cited KB)

by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 139, Citation Count: 7

Sensor networks exhibit a unique funneling effect which is a product of the distinctive many-to-one, hop-by-hop traffic pattern found in sensor networks, and results in a significant increase in transit traffic intensity, collision, congestion, packet ...

Keywords: MAC, funneling effect, wireless sensor networks

13 Implementation and evaluation of a QoS-capable cluster-based IP router Prashant Pradhan, Tzi-cker Chiueh

November Supercomputing '02: Proceedings of the 2002 ACM/IEEE

2002 conference on Supercomputing

Publisher: IEEE Computer Society Press

Additional Information: full citation, abstract, references, index Full text available: Pdf (215.68 KB)

terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Citation Count: 0

A major challenge in Internet edge router design is to support both high packet forwarding performance and versatile and efficient packet processing capabilities. The thesis of this research project is that a cluster of PCs connected by a high speed ...

14 RI-MAC: a receiver-initiated asynchronous duty cycle MAC protocol for

dynamic traffic loads in wireless sensor networks

<u>Yanjun Sun, Omer Gurewitz, David B. Johnson</u>

November SenSys '08: Proceedings of the 6th ACM conference on Embedded

2008 network sensor systems

Publisher: ACM

Additional Information: full citation, abstract, references, index Full text available: Pdf (1.10

> MB) terms

Bibliometrics: Downloads (6 Weeks): 71, Downloads (12 Months): 312, Citation Count: 0

The problem of *idle listening* is one of the most significant sources of energy consumption in wireless sensor nodes, and many techniques have been proposed based on duty cycling to reduce this cost. In this paper, we present a new asynchronous ...

Keywords: asynchronous duty cycling, energy, medium access control, ns-2, sensor networks, tinyos

15 Admission of QoS aware users in a smart network

<u>Erol Gelenbe, Georgia Sakellari, Maurizio D'arienzo</u>

March Transactions on Autonomous and Adaptive Systems (TAAS),

2008 Volume 3 Issue 1

Publisher: ACM

Additional Information: full citation, abstract, references, index Full text available: Pdf (3.31

terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 234, Citation Count: 0

Smart networks have grown out of the need for stable, reliable, and predictable networks that will guarantee packet delivery under Quality of Service (QoS) constraints. In this article we present a measurement-based admission control algorithm that helps ...

Keywords: Measurement-based admission control, cognitive packet network, quality of service, self-aware

16 End-to-end congestion control for TCP-friendly flows with variable packet



Jörg Widmer, Catherine Boutremans, Jean-Yves Le Boudec

April SIGCOMM Computer Communication Review , Volume 34 Issue 2

2004

Publisher: ACM

Full text available: Pdf (200.39

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 75, Citation Count: 1

Current TCP-friendly congestion control mechanisms adjust the packet rate in order to adapt to network conditions and obtain a throughput not exceeding that of a TCP connection operating under the same conditions. In an environment where the bottleneck ...

17 An OPNET-based simulation approach for deploying VolP

K. Salah, A. Alkhoraidly

May International Journal of Network Management, Volume 16 Issue 3

2006

Publisher: John Wiley & Sons, Inc.

Full text available: 1.64 Additional Information: full citation, abstract, references, index

terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 249, Citation Count: 2

These days a massive deployment of VoIP is taking place over IP networks. VoIP deployment is a challenging task for network researchers and engineers. This paper presents a detailed simulation approach for deploying VolP successfully. The simulation ...

18 Experiences in Design and Implementation of a High Performance Transport

Protocol

Yunhong Gu, Xinwei Hong, Robert L. Grossman

November SC '04: Proceedings of the 2004 ACM/IEEE conference on

2004 Supercomputing **Publisher:** IEEE Computer Society

Full text available: Pdf (193.37 Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 80, Citation Count: 4

This paper describes our experiences in the development of the UDP-based Data Transport (UDT) protocol, an application level transport protocol used in distributed data intensive applications. The new protocol is motivated by the emergence of wide area ...

Keywords: Performance, Design, Experimentation, UDT, transport protocol, data intensive application, design, implementation

19 Profiling internet backbone traffic: behavior models and applications

Kuai Xu, Zhi-Li Zhang, Supratik Bhattacharyya

August SI GCOMM '05: Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 311, Citation Count: 32

Recent spates of cyber-attacks and frequent emergence of applications affecting Internet traffic dynamics have made it imperative to develop effective techniques that can extract, and make sense of, significant communication patterns from Internet traffic ...

Keywords: behavior profiles, network monitoring, traffic measurement

Also published in:

October 2005 SIGCOMM Computer Communication Review Volume 35 Issue 4

20 Lightweight network support for scalable end-to-end services

Kenneth L. Calvert, James Grifficen, Su Wen

August SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: Pdf (331.84 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 59, Citation Count: 16

Some end-to-end network services benefit greatly from network support in terms of utility and scalability. However, when such support is provided through service-specific mechanisms, the proliferation of one-off solutions tend to decrease the robustness ...

Keywords: end-to-end services, ephemeral state, programmable network, router achitecture

Also published in:

October 2002 SIGCOMM Computer Communication Review Volume 32 Issue 4

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